

Name: _____

Date: _____

PCW__09__22 Coordinate transformations v8

Question 1

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 5 \cdot \left(f\left[\frac{x}{4} - 7\right] + 2 \right)$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 2

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = \frac{f[2x - 7] + 4}{5}$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 3

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 7 \cdot f[8x + 3] + 6$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

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Question 4

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 8 \cdot \left(f\left[\frac{x-9}{3}\right] - 6 \right)$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 5

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = \frac{f[7(x-3)] - 6}{2}$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 6

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = \frac{f\left[\frac{x}{3} + 7\right]}{8} + 6$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.